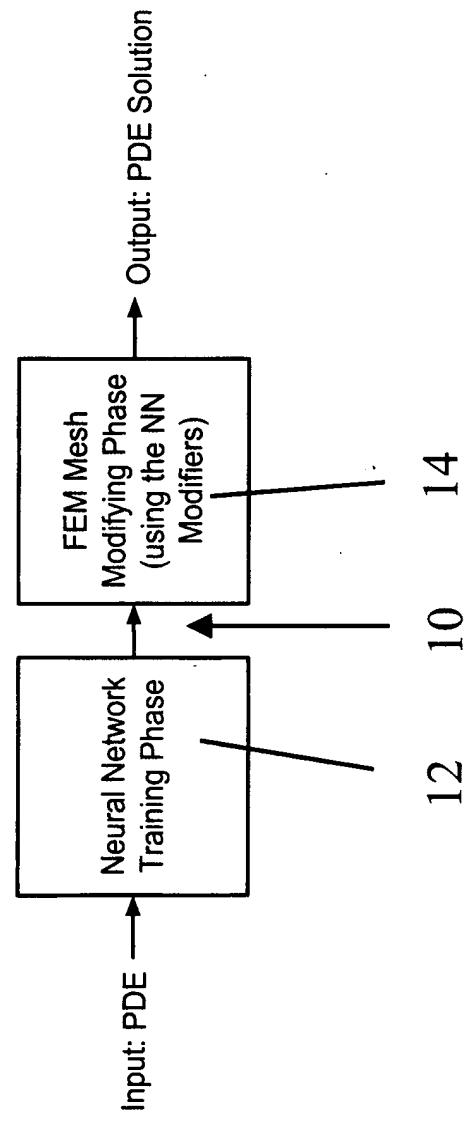




**Neural Network Time Series Forecasting of  
Finite-Element Mesh Adaptation**



**Fig. 1**

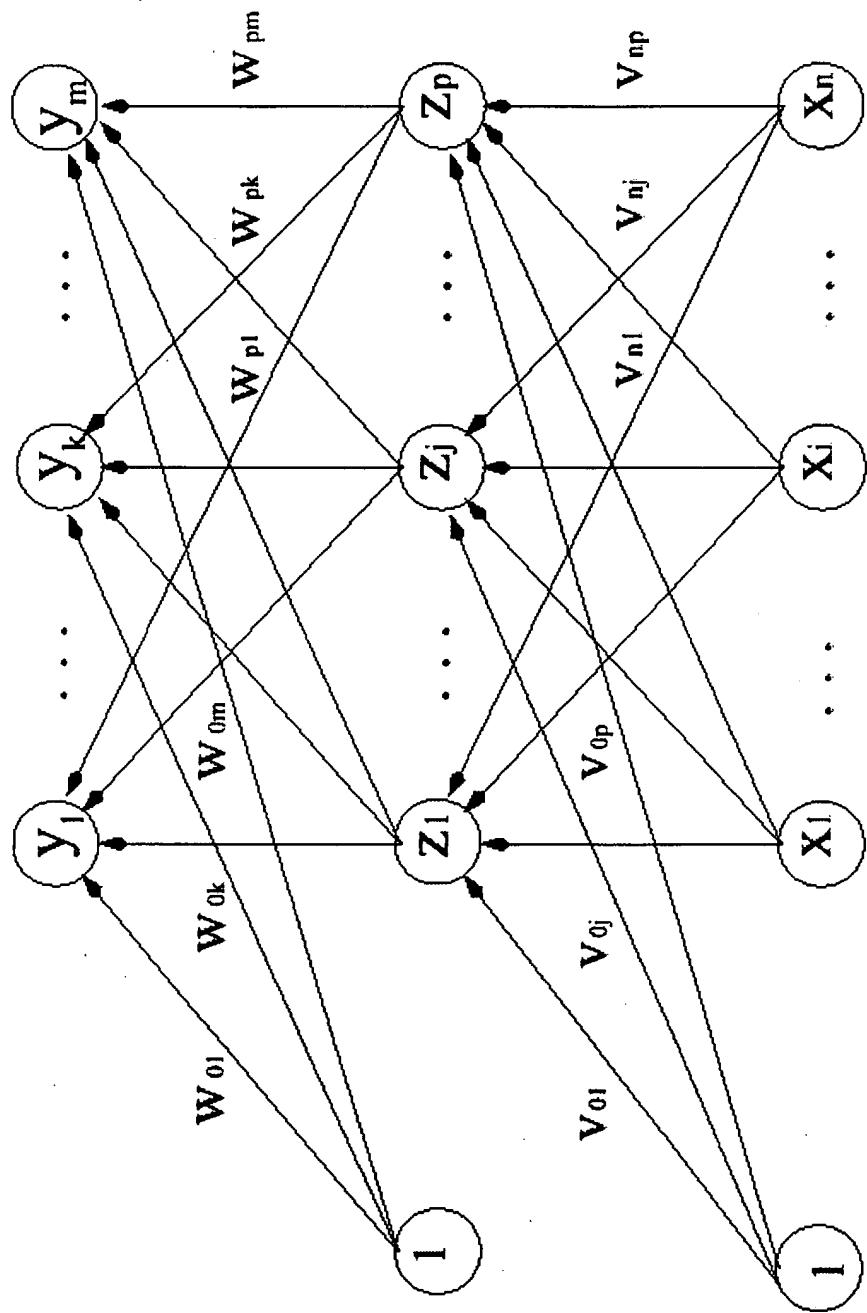


Fig. 2

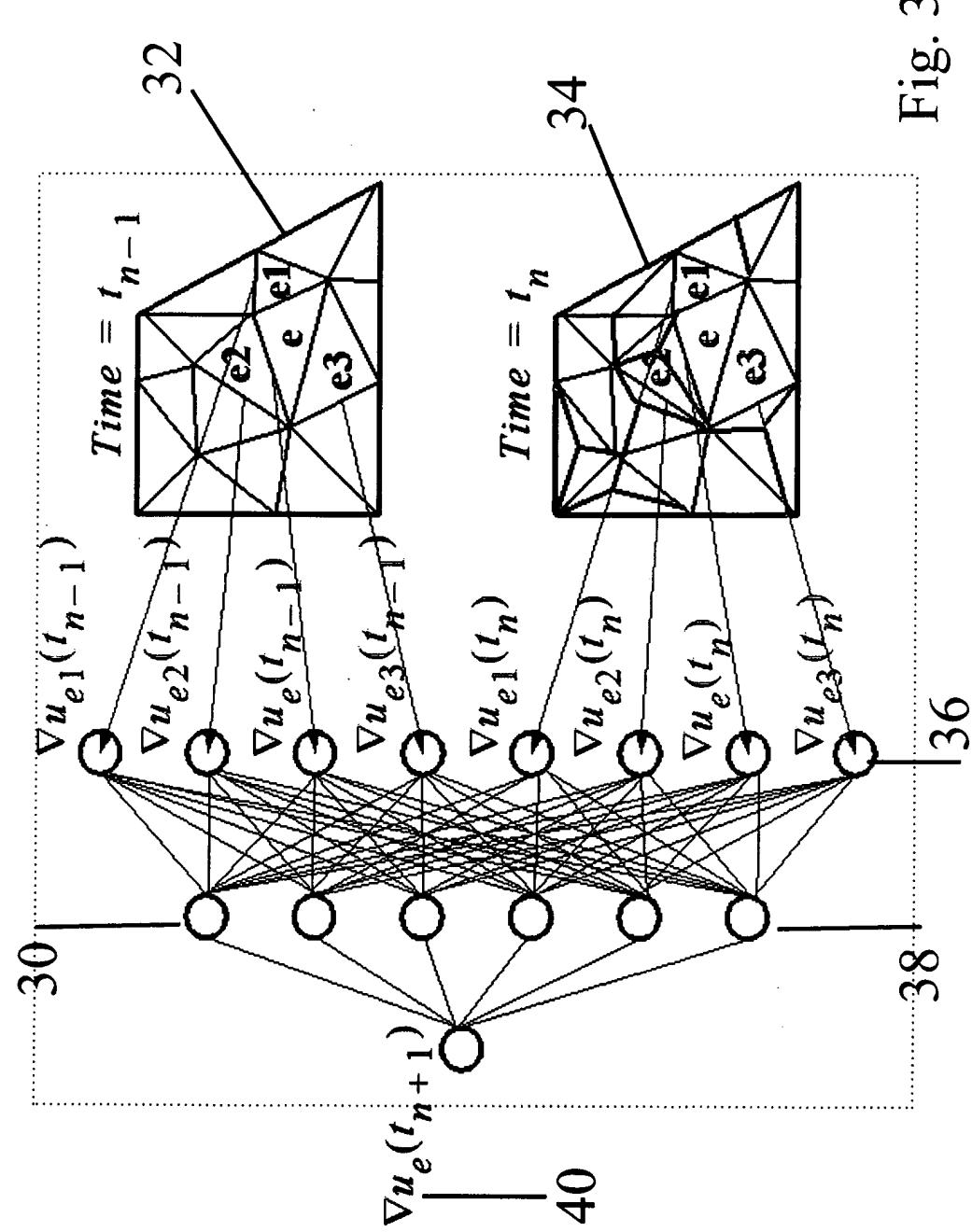


Fig. 3

### Neural Network Training Phase

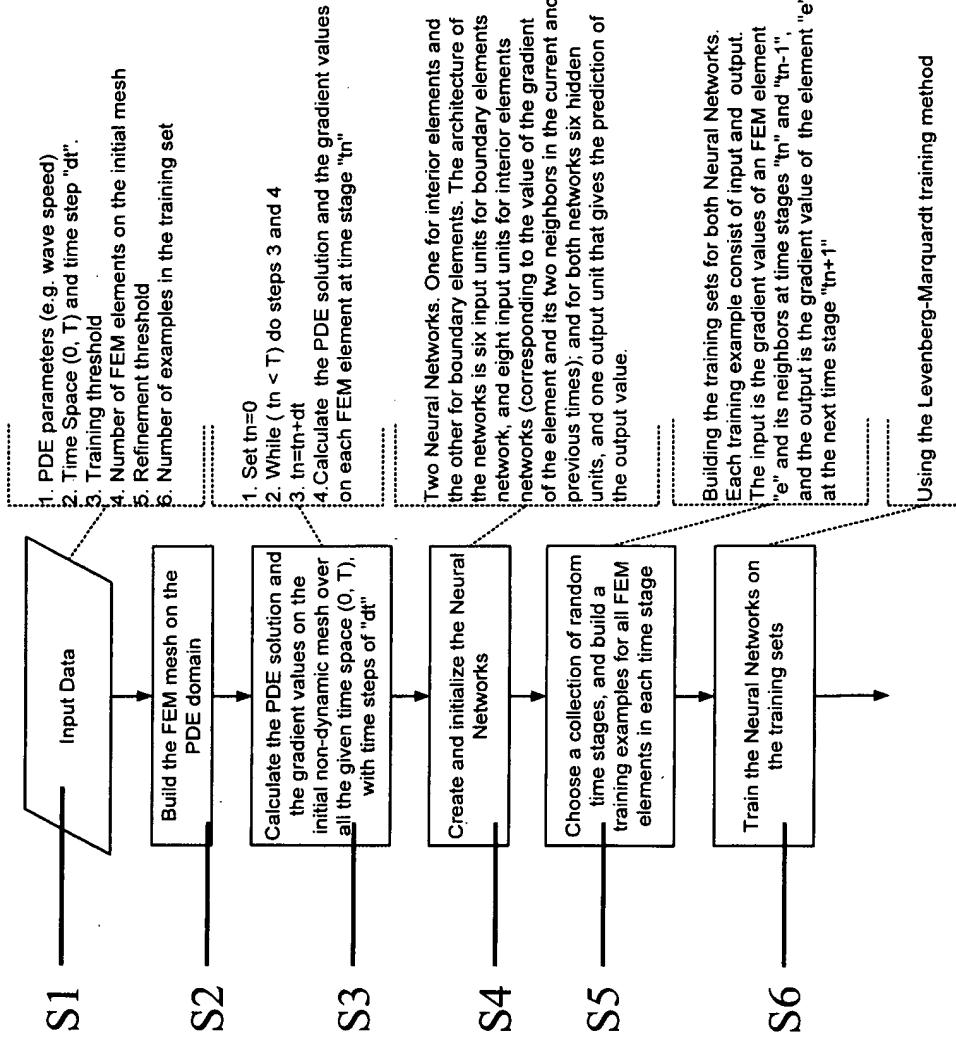


Fig. 4A

### FEM Mesh Adaptation Phase

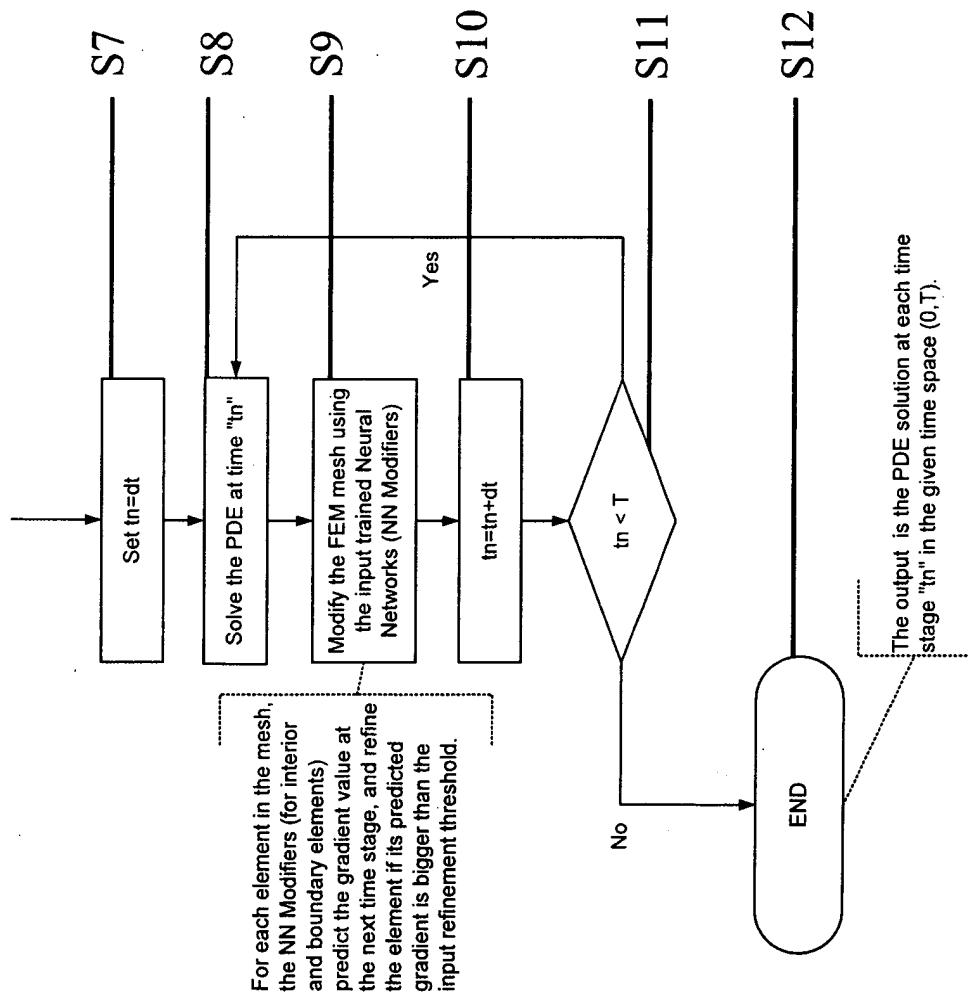


Fig. 4B

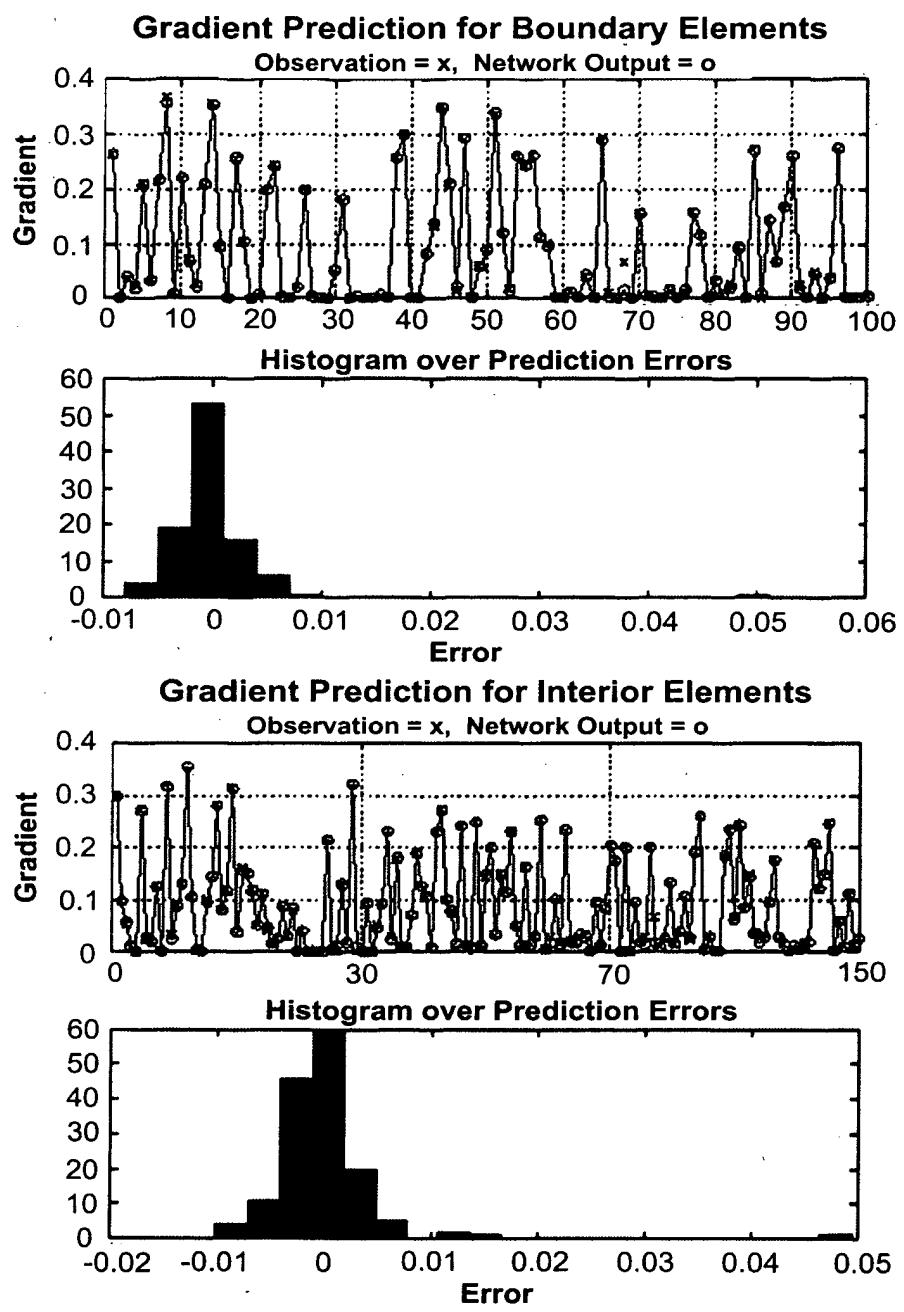


Fig. 5

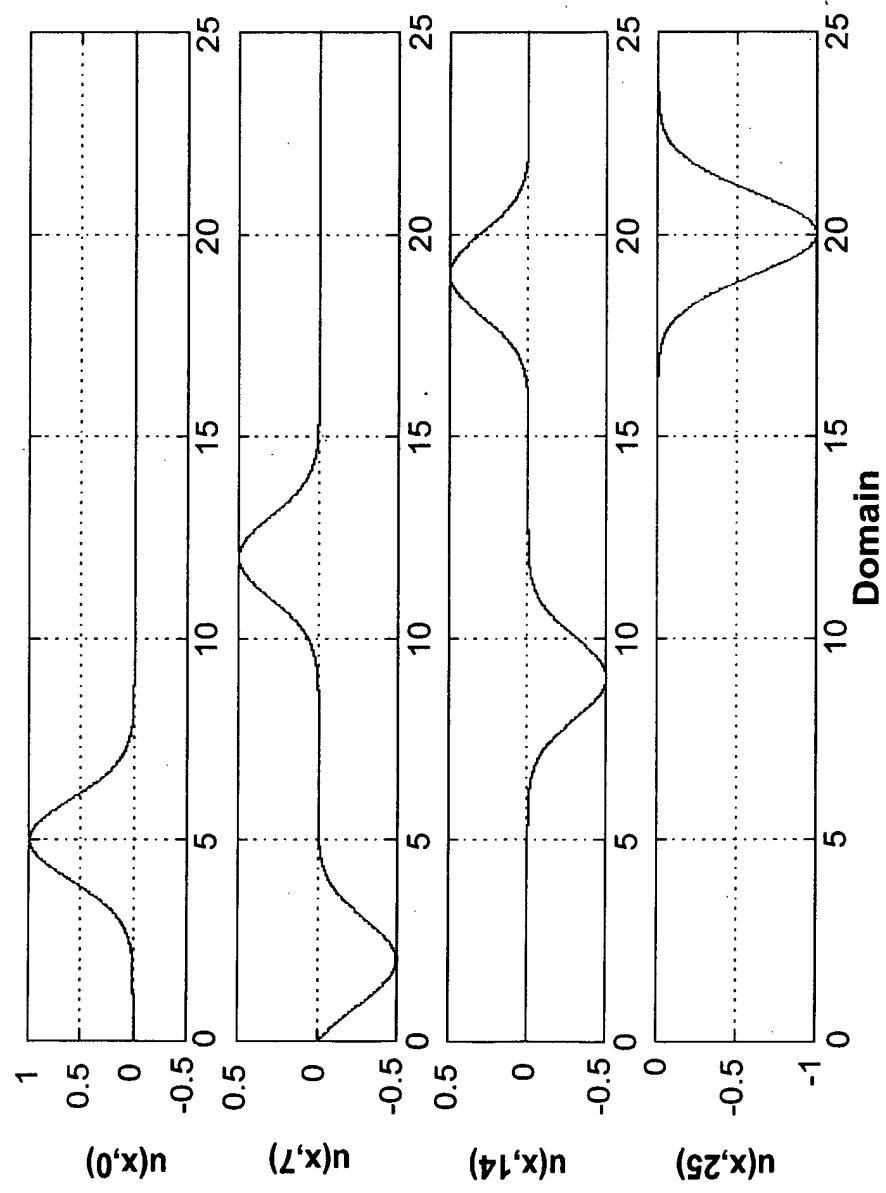
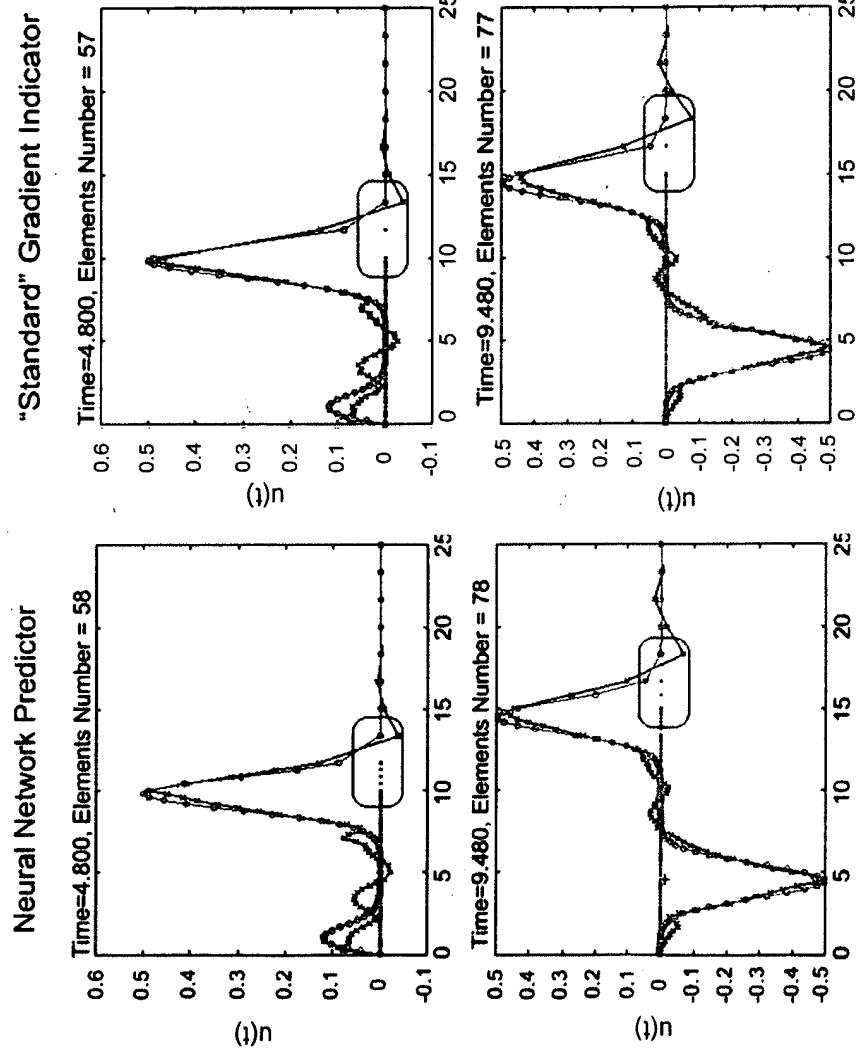


Fig. 6

**Fig. 7**

Legend:

- Analytic Solution =  $\cdots\circ\cdots$
- FEM Solution =  $\cdots\times\cdots$

Fig. 8A

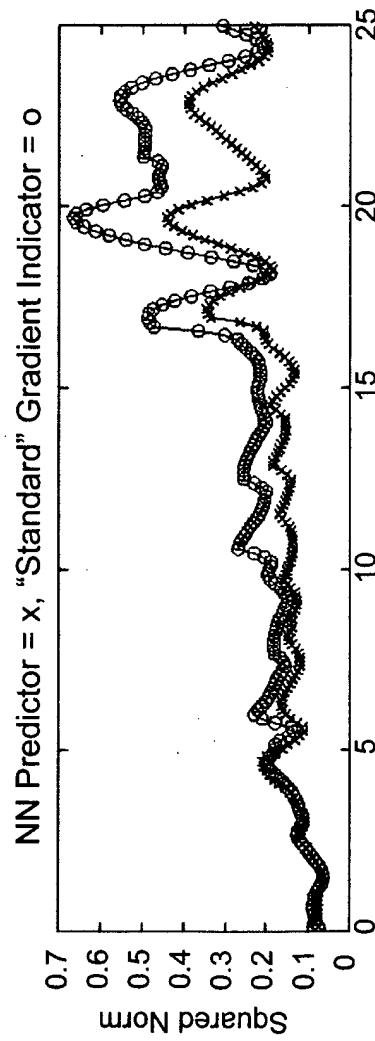
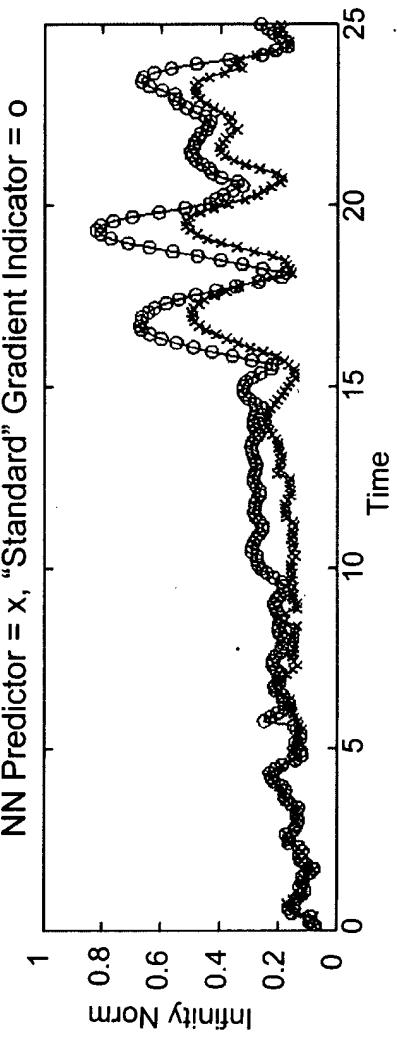


Fig. 8B



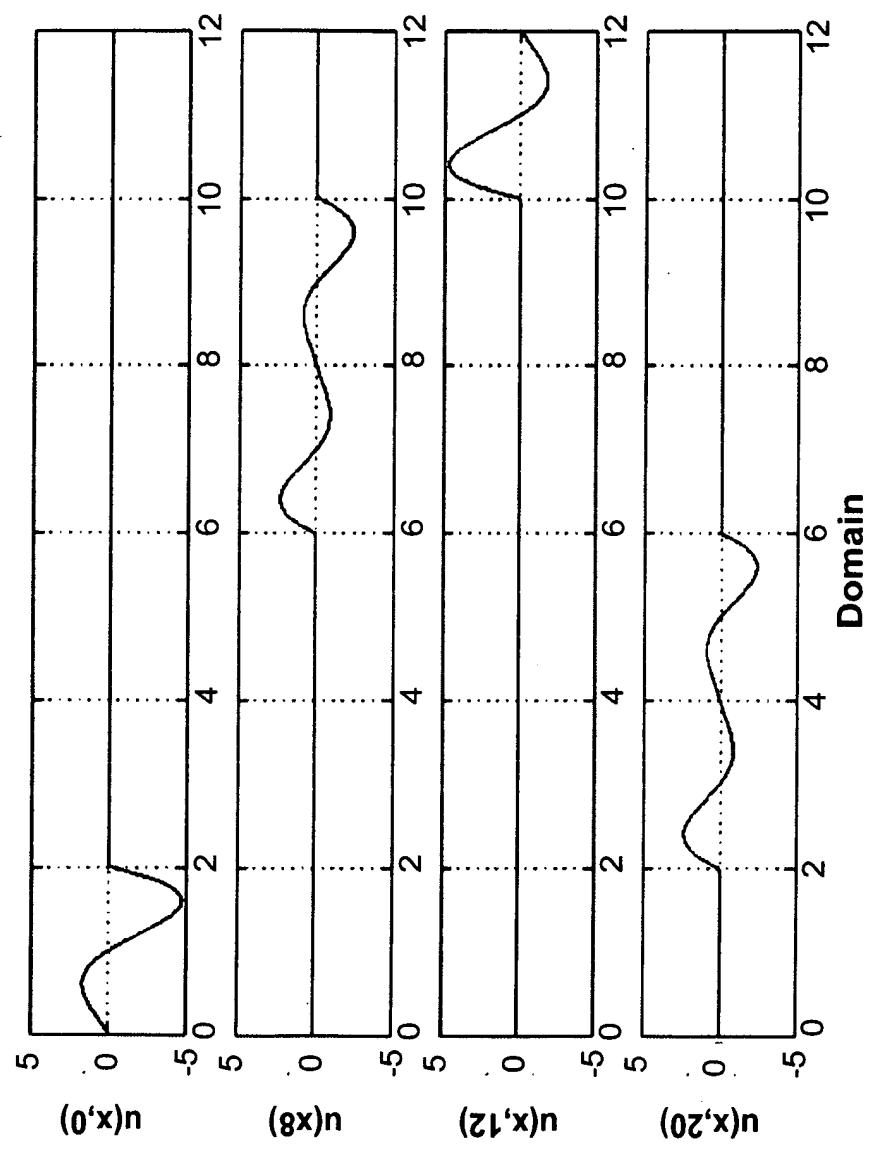


Fig. 9

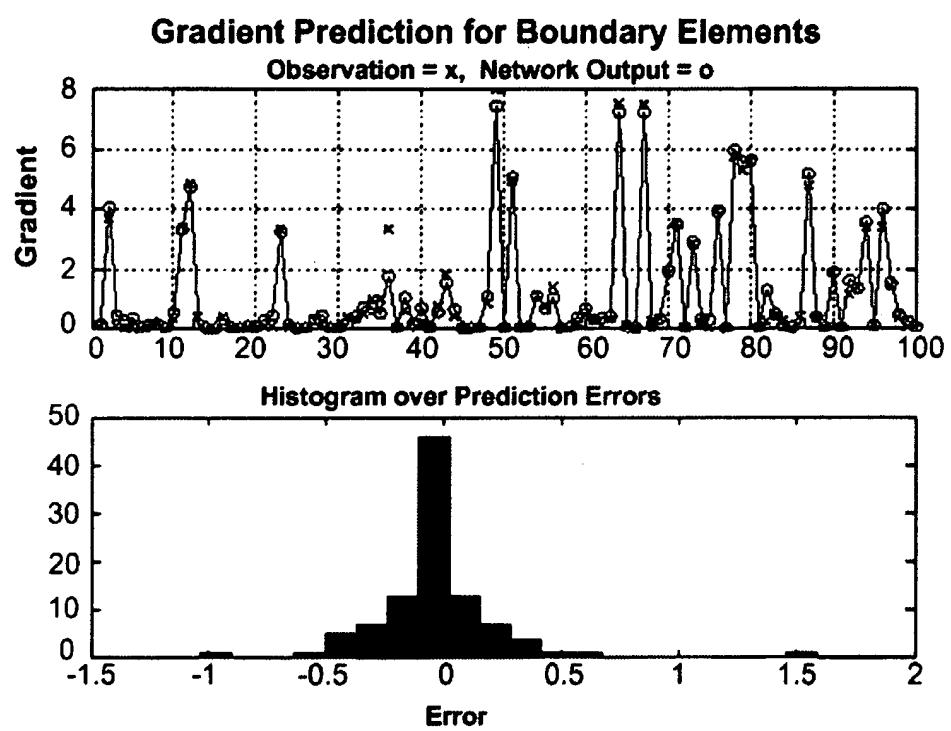


Fig. 10A

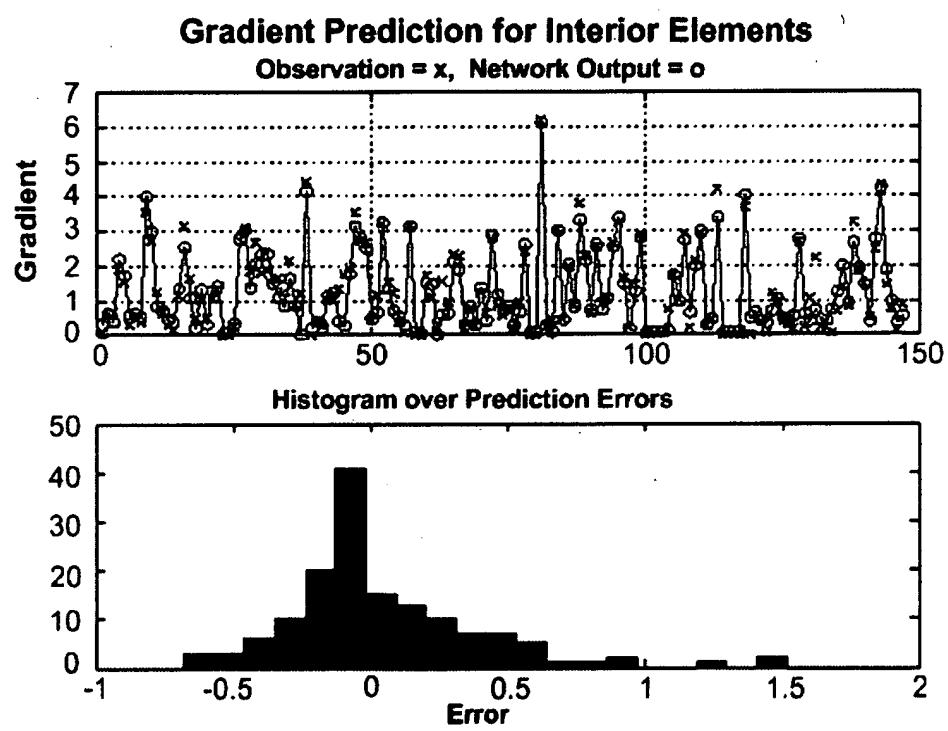


Fig. 10B

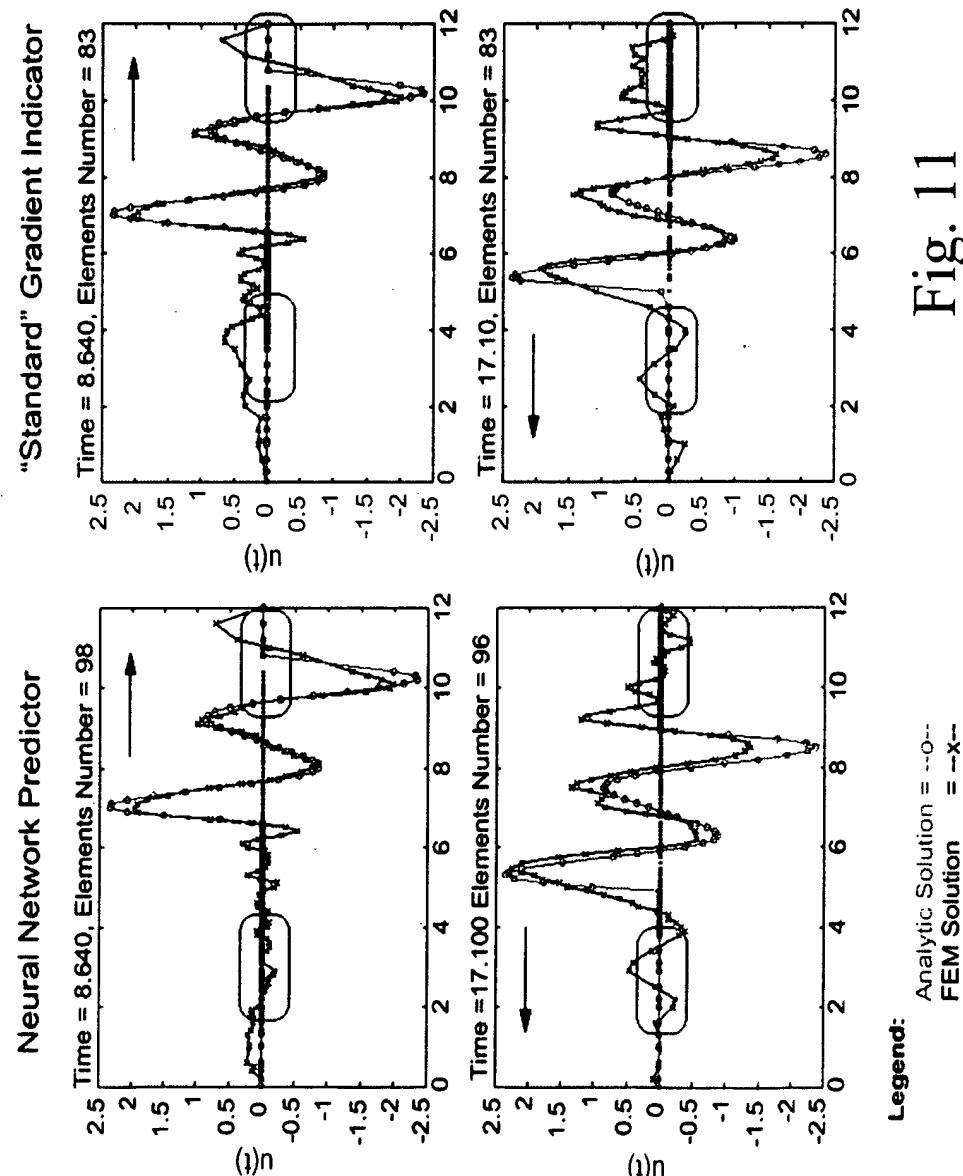


Fig. 11

Fig. 12A

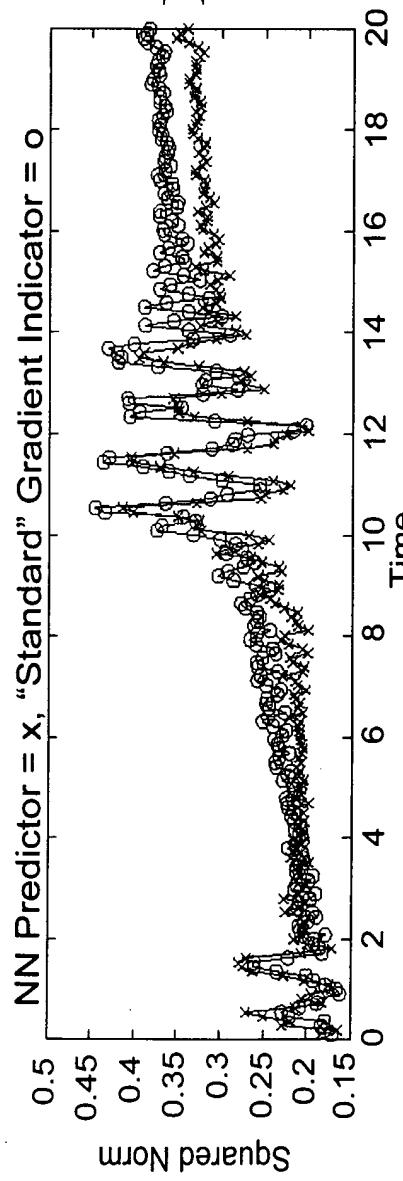


Fig. 12B

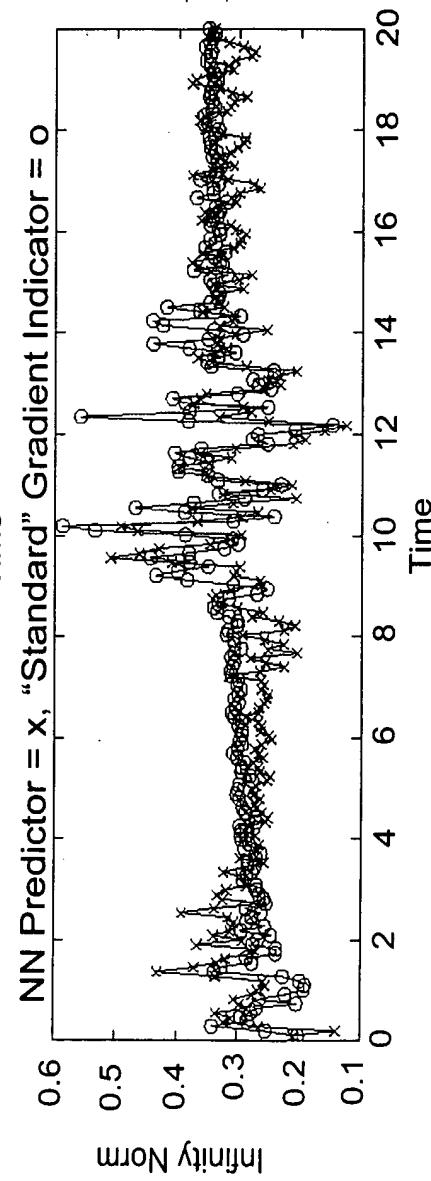


Fig. 13A

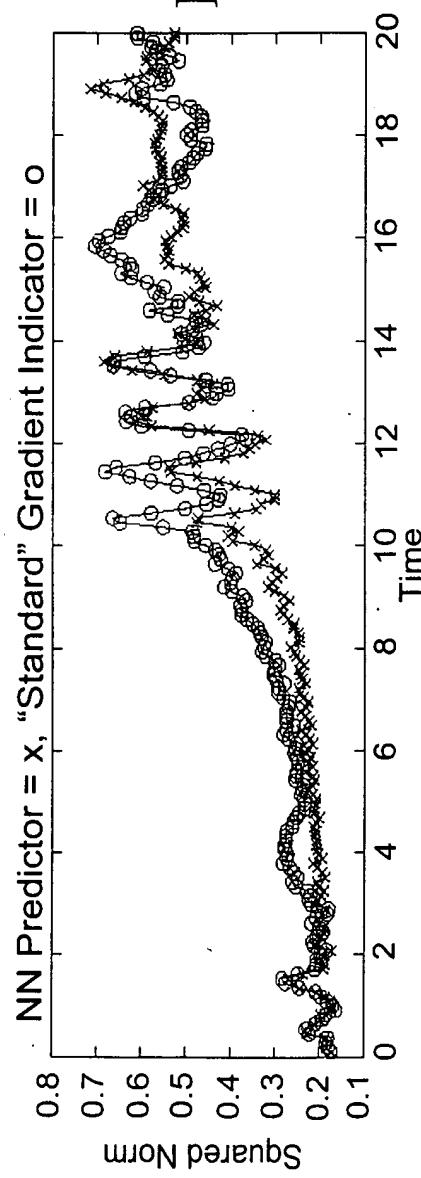


Fig. 13B

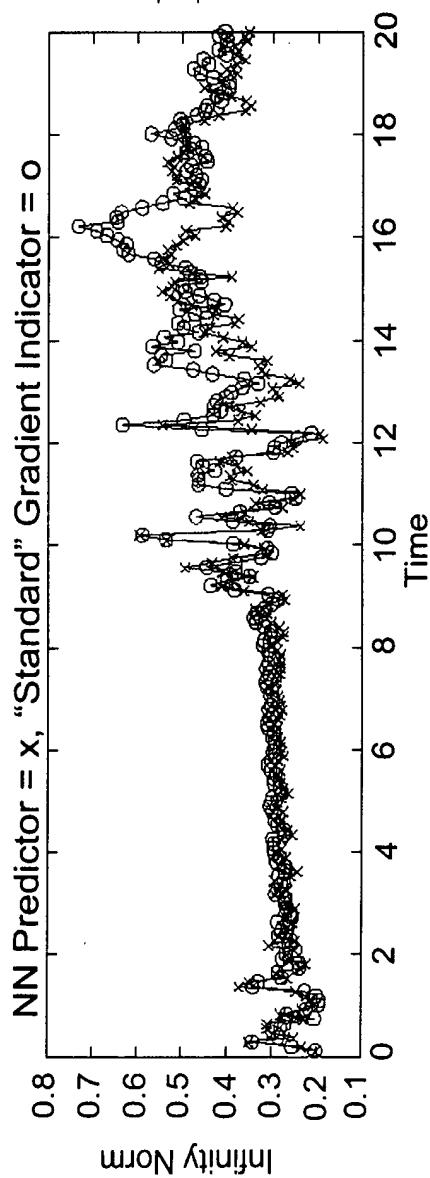


Fig. 14

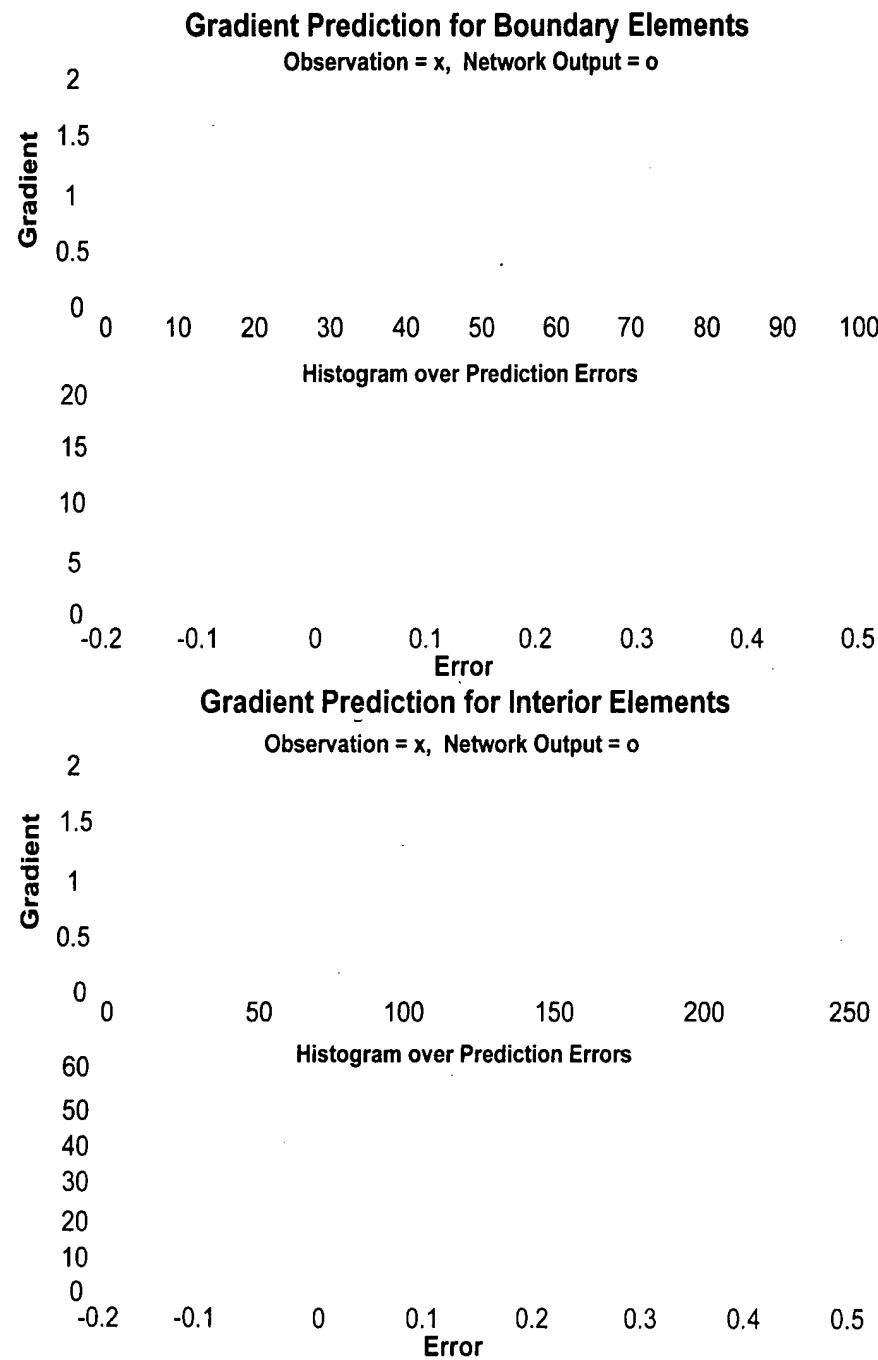


Fig. 15

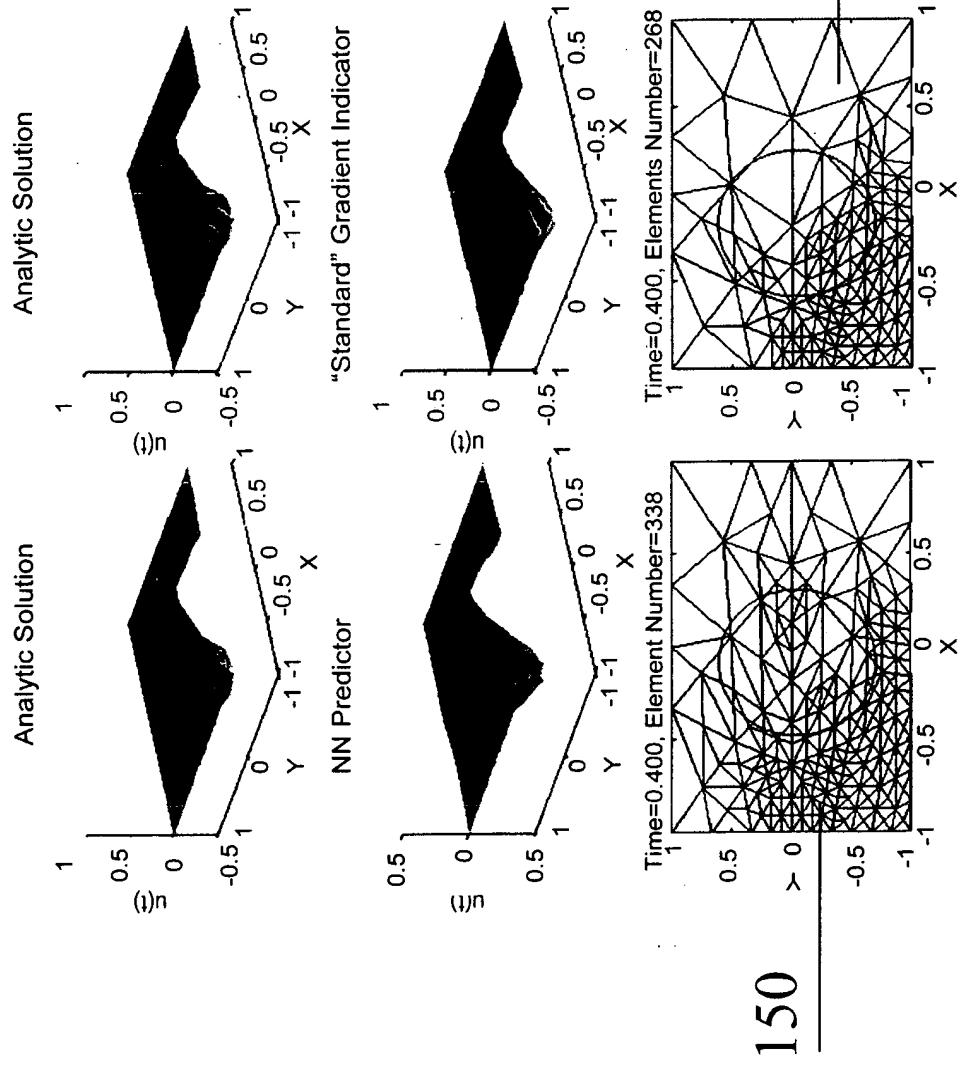


Fig 16A

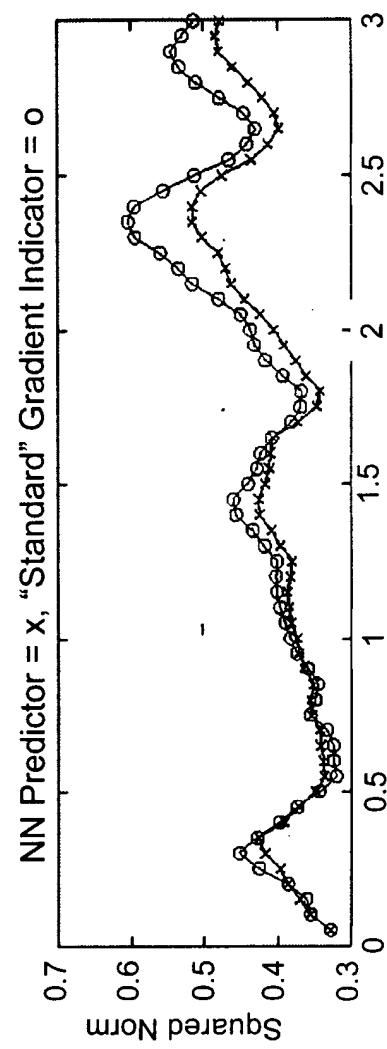
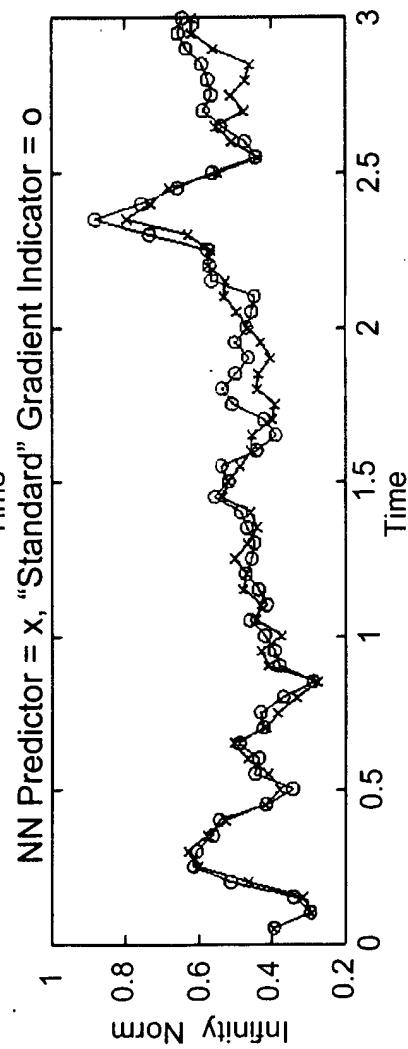


Fig. 16B



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